1.	KARYAKIN, N.A.; MALIGIN, M.G.; MESHLOV, V.V.; KUZMUTOCV, V.V.						
2.	USSR (600)						
4.	Electric Engineers						
7.	Professor N.A. Karyakin, Fiftieth birthday anniversary, M.G. Mal'gin, W.V. Meshkov, V.V. Kuznetsov, Elektriches vo no. 4, 1953.						

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Unel.

CHILIKIN, M.G.; KOSTROV, M.F.; GLAZUNOV, A.A.; MESHKOV, V.V.; SO-LOV'TRV, I.I.; VENIKOV, V.A.

L.I. Sirotinskii, honored worker in science and er; insering.

Blektrichestvo no.6:91 Je '54. (MLRA 7:7)

(Sirotinskii, Lecnid Ivanovich, 1879-)

CHILIKIN, M.G.; LABIONOV, A.N.; PETROV, G.N.; MESHKOV, V.V.; GOLOVAN, A.T.;
LYSOV, M.Te.; PADTIUSHIN, V.S.; KURBATOVA, M.S.; SAIRNOV, V.A.

Professor B.V.Nitusov. Elektrichestvo no.6:85 Je '55.(MIRA 8:6)

(Nitusov. Evgenii Vasil'evich, 1895-)

SHATELEN, M.A.; MESHKOV, V.V.; PETROV, G.N.; KISELEV, A.S.; BEL'KIED, L.D.

S.O.Maixel'. Elektrichestvo no.10:85 0'55. (MERA 8:12)
(Maixel', Sergei Ocipovich, 1882-1955)

AID P - 4091

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 2/24

Meshkov, V. V., Prof. Distinguished Worker in Science and Engineering Author

Title Scientific activity of the Moscow Power Engineering

Institute im. Molotov.

Periodical : Elektrichestvo, 11, 9-12, N 1955

Abstract : The author describes the various fields of the scientific

and research activity of the Institute and enumerates the various scientists, professors and engineers who have contributed to the development of the Institute.

Institution: None

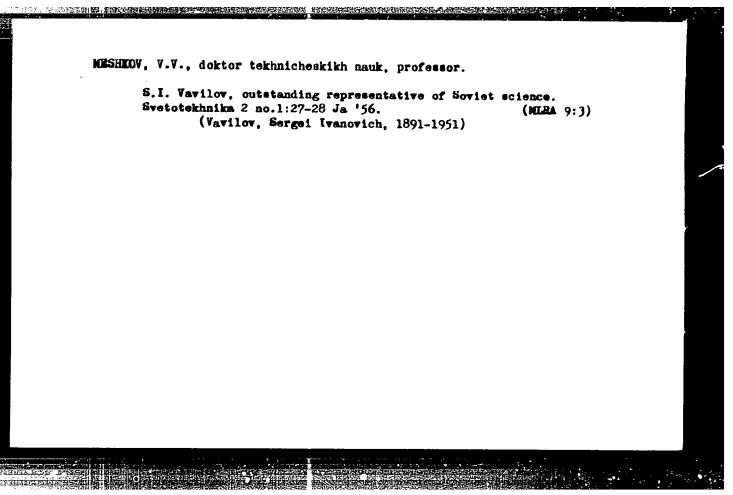
Submitted : S 5, 1955

CIA-RDP86-00513R001033710003-3" APPROVED FOR RELEASE: 07/19/2001

GOLUBTSOVA, V.A.; CHILIKIN, M.G.; MARGULOVA, T.Kh.; MESHKOV, V.V.;
DROZDOV, N.G.; PEREKALIN, M.A.; SMIRNOV, V.A.

Professor V.S. Pantiushin. Elektrichestvo no.7:93 Jl*56. (MLRA 9:10)

(Pantiushin, Vasilii Sergesvich, 1906-)



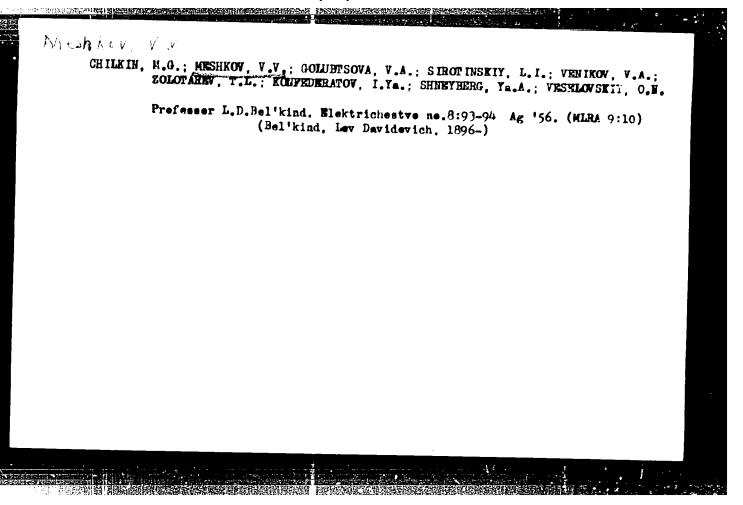
GUREVICH, M.M., professor; HARYAKIN, N.A., professor; MISHKOV, V.V.

professor; SOKOLOV, M.V., professor; TIKHODMIN, P.M., professor;
FABRIKAHT, V.A., professor; IVANOVA, M.S., kandidat tekhnicheskikh
mank; SHEWISERG, Ia.A.; YUROV, S.G.; ASHKEMAZI, G.I., inzhener.

Professor L.D. Bel'kind; on his sixtieth birthday. Svetotekhnika
2 no.5:26 S '56. (MLRA 9:11)

(Bel'kind, Lev Davidovich, 1896-)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033710003-3"



MESHKOV, V. (Prof.)

"Production Workers Prepare to Enter Higher Educational Institutions.A Well Thought-Out System is Necessary." Vechernyaya Moskva, 7 June 1957.
PP. 6.

Deputy Director, Moscow Power Engineering Inst. im. Molctov

Trans - U-3,055,385

MESHKUV, V. V

TH 7703. M43 Call Nr:

AUTHOR:

Meshkov, V. V.

TITLE:

Principles of Illuminating Engineering (Osnovy svetotekhniki) Pirst Part (Chast' pervaya)

PUB. DATA:

Gosudarstvennoye energeticheskoye izdatel'stvo, Moscow

and Leningrad, 1957, 352 pp., 7000 copies

ORIG. AGENCY: Ministerstvo vysshego obrazovaniya SSSR

upravleniye politicheskikh i mashinostroitel 'nykh vuzov

EDITORS:

Ashkenazi, G. I., and Tech. Ed.: Larionov, G. I..

PURPOSE:

This monograph is a handbook for students taking a

course in the principles of illuminating engineering.

COVERAGE:

The book consists of a series of lectures delivered by

the author in 1949 at the Moscow Power Engineering

Institute im. V. M. Molotov. It presents only the first part of the course on illuminating engineering. It deals

card 1/12

with the systems of radiant and effective values in

Principles of Illuminating Engineering First Part (Cont.)

optical radiation, the principles of theoretical photometry and the basic laws in radiation transformation; i.e., thermal and photoelectric effects, photoluminescence, photochemical and photobiological effects. The principles of color and physiological optics are to be covered in the second part of the handbook for use in the lecture course. The author thanks members of the Department of Illuminating Engineering at the MEI (Moscow Institute of Power Engineering) namely, Dashkevich, L. L., Doctor of Technical Sciences, Professor; Lebedev, P. D., Doctor of Technical Sciences, Professor; Surinov, Yu. A., Doctor of Technical Sciences, Professor; Ashkenazi, G. I., Engineer; Gutorov, M. M., Candidate of Technical Sciences; and Krupennikova, L. I., Aspirant. The book contains 102 references, of which 79 are USSR, 9 English, 9 translations from English, 4 German, 1 Latin.

Card 2/12

MESHKOV, V. V. (Doctor of Technical Sciences)

Moscow. Ener eticheskiy institut

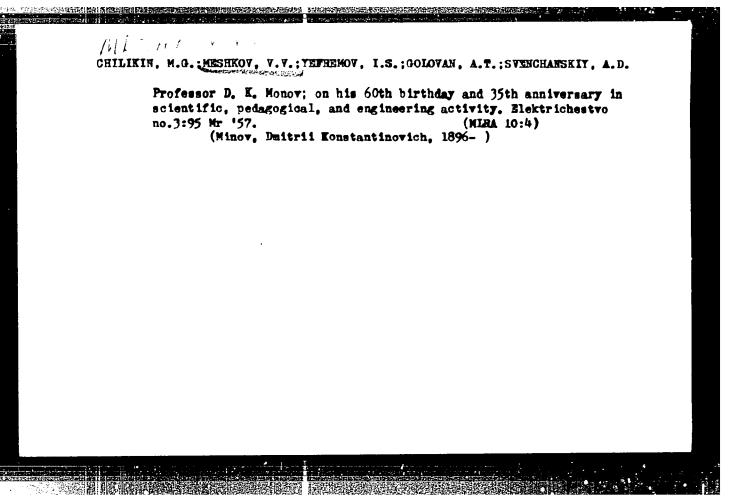
Istoriya energeticheskoy tekhniki SSSR v trekh tomakh. t. 1: Teplotekhnika (History of Power Engineering in the USSR in Three V lumes. v. 1: Heat Engineering) Moscow, Bosenergoizdat, 1957. 479 p. 5,000 copies printed.

Ed.-Compiler: Konfederatov, I.Ya., Doctor of Technical Sciences; Althors: Badyl'kes,
I.S., Doctor of Technical Sciences; Belindki, S.Ya., Candidate of Technical
Sciences; Gimmel'farb, M.L., Candidate of Technical Sciences; Kalafati, D.D.,
Candidate of Technical Sciences; Kertselli, L.I., Professor; Kovalev, A.F., Doctor
of Technical Sciences; Konfederatov, I.Ya., Doctor of Technical Sciences; Lavrov,
v.N., Doctor of Technical Sciences; Lebedev, P.D., Doctor of Technical Sciences;
Lukinskiy, V.V., Doctor of Technical Sciences (deceased); returnov, B.S., Loctor
of Technical Sciences; Satanovskiy, A.fe., Doctor of Technical Sciences; Semenenko,
N.A., Loctor of Technical Sciences; Smel'nitskiy, S.J., Candidate of Technical
Sciences; Sokolov, 19e.Ya., Doctor of Technical Sciences; Chistyakov, S.F., Candidate of
Technical Sciences, and Shcheglyayev, A.V., Corresponding Member, USCK Academy of
Sciences; Editorial Coard of set: Bel'kind, L.D., Doctor of Technical Sciences;
Clazunov, Doctor of Technical Sciences; Colubtsova, V.A., Doctor of Technical
Sciences; Zolotarev, T.L., Doctor of Technical Sciences; Izbash, S.V., Doctor of
Technical Sciences; Kirillin, V.A., Corresponding Member, USSE Academy of Sciences;

Konfederatov, I.Ya., Doctor of Technical Sciences; Mar wlova, I.Kh., Poctor of Technical Sciences; Meshkov, V.V., Doctor of Technical Sciences; Petrov, J.N., Doctor of Technical Sciences; Sirotinskiy, L.I., Doctor of Technical Sciences; Styrikovich, M.A., Corresponding Member, USSR Academy of Sciences; and Shneyberg, Ya.A., Candidate of Technical Sciences. Ed.: Matveyev, J.A., Doctor of Technical Sciences; Technical Ed.: Medvedev, L.Ya.

PURPOSE: The book is intended for technicians in all pranches of heat engineering.

COVERA E: This book presents the development of the basic branches of heat engineering in the Soviet Union and it is the first volume of 3 volumes entitled History of Power Technology in the USSR. The first chapter gives a concise history of the development of heat engineering from its very beginning to the middle of the 19th Century when the fundamentals of the theoretical heat engineering were established. A detailed description of the development of heat engineering in pre-hevolutionary Russia is given in Ch. 2 to 5 and its status before 1917 is described. In the main part of the volume, Ch. 6 to 16, the development of various branches of the Soviet heatlengineering is presented. The theoretical fundamentals of heat engineering, of manufacturing boilers, turbine installations of heat power plants, district heating, heat control, automation of thermal processes, and cooling techniques are covered extensively. Each chapter is supplemented with a bibliography. The book is illustrated with photographs, charts and diagrams, worked out by the authors of the respective chapters. At the end of the book there is a chronological list of significant events in the development of heat engineering.



MESHFOY Law, professor, doktor tekhnichoskikh nauk; RYABOV, M.S., kandidat tekhnicheskikh nauk.

Limiting glare effects in the use of fluorescent lighting equipment. Svetotekhnika 3 no.2:24-26 F '57. (MIRA 10:3)

1. Moskovskiy energeticheskiy institut Gosudarstvennogo politekhnicheskogo instituta Tysshpromelektroproyekt.

(Fluorescent lighting)

BEL'KIND, L.D., doktor tekhn. nauk, prof.; MESHKOV, V.V., doktor tekhn. nauk, prof.

Illumination engineering education in the U.S. S.R. Svetotekhnika 3 no.11:29-36 % '57. (MIRA 10:12)

1. Moskovskiy energeticheskiy institut. (Technical education) (Lighting)

MESSIKOV, V.V., doktor tekhn. nauk, prof.; HYABOV, M.S., kand. tekhn. nauk.

On norms for artificial lighting, Svetotekhnika 3 no.12:20-23 D '77.

(MINA 11:1)

1. Moskovskiy energeticheskiy institut i Gosudarstvennyy proyektnyy institut "Tyazhpronelektroproyekt."

(Lighting)

VUL'FSON, K.S., prof.; GUREVICH, M.M., prof.; MESHKOV, V.V., prof.; NILENDER, R.A., prof. VUROV, S.G., kand. tekhn. nauk; SUKUMOV, M.V., prof.; BIBERMAN, L.M., kand. tekhn. nauk; BUTATVA, F.A., kand. tekhn. nauk; IVANOVA, M.S., kand. tekhn. nauk; SUSHKIN, N.G., kand. tekhn. nauk.

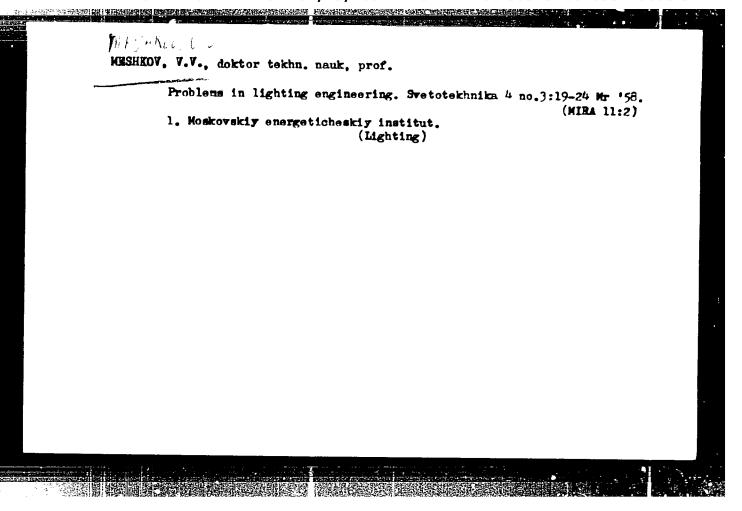
Valentin Aleksandrovich Fabrikant; on his 50th birthday. Svetotekhnika 3 no.12:24-25 D '57. (NIRA 11:1)

(Fabrikant, Valentin Aleksandrovich, 1907-)

MESHKOT, Yeve, prof.; SCKOLOV, M.V., prof.; TIKHODEYEV, P.M., prof.; FEDOROV, B.F., prof.; RYABOV, M.S., kand. tekhn. nauk.

Professor V.N. Kiianitsa; on his 70th birthday. Svetotekhnika 4 no.1: (MIRA 11:1)

(Kiianitsa, Viktor Nikolaevich, 1887-)



MESHKOV. I.V., prof., doktor tekhn.nauk

Lightness and brightness. Svetotekhnika 4 no.12:1-5 D'58.

1. Moskovskiy energeticheskiy institut.
(Optics, Physiological)

MESHKOV, Vladimir Vasil'yevich; SOKOLOV, Ivan Ivanovich. Prinimal uchastiye

RYABOV, M.S., kand.tekhn.nauk. ASHKEMAZI, G.I., inzh., red.;

VGRONIM, K.P., tekhn.red.

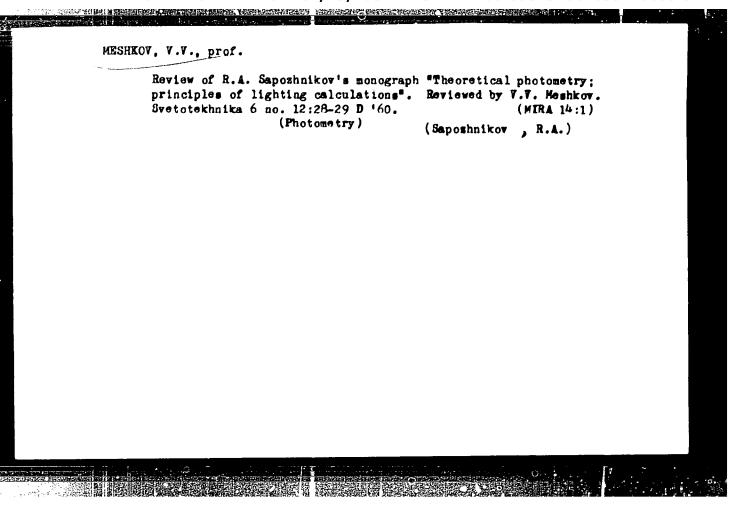
[Course in lighting engineering] Kurs osvetitel'noi tekhniki.

Izd.5., ispr. i dop. Moskva, Gos.energ.izd-vo, 1960, 262 p.

(Electric lighting)

(Electric lighting)

MESHKOV, V.V. Review of I.B. Levitin's "Infared radiation technology." Svetotekhnika 6 no.10:31 0 '60. (MIRA 13:9) (Infrared rays) (Levitin, I.B.)



APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001033710003-3"

CHILIKIN, M.G.; LARIONOV, A.N.; ANDRIANOV, K.A.; MESHKOV, V.V.;
IONKIN, P.A.; ARKHIPOV, V.N.; PETROV, G.N.; BRAGIN, S.M.;
PRIVEZENTSEV, V.A.; TAREYEV, B.M.

Professor N.G. Drozdov. Elektrichestvo no.10:90 0 '60.
(MIRA 14:9)

(Drozdov, Nikolai Gavrilovich, 1900-)

MESHKOV, Vladimir Vasiliyevich; GUREVICH, M.M., prof., doktor tekhn.

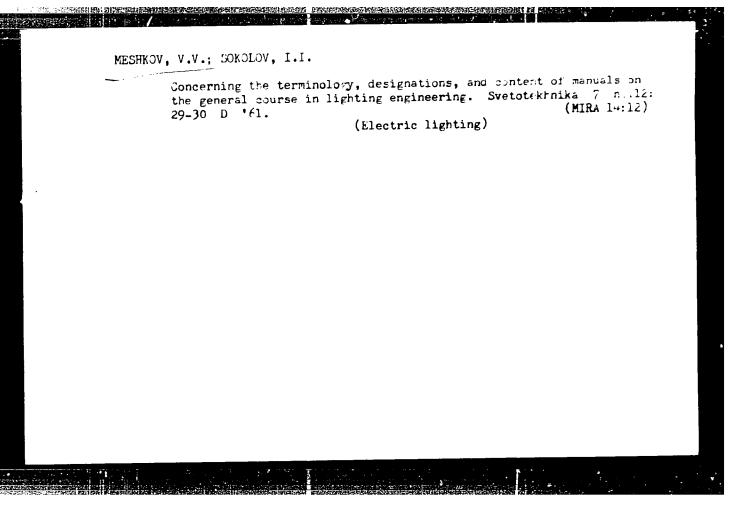
nauk, retsenzent; LUIZOV, A.V., doktor fiz.-metem.nauk,
retsenzent; ASHEMAZI, G.I., inzh., red.; LARIOHOV, G.Ye.,
tekhn.red.

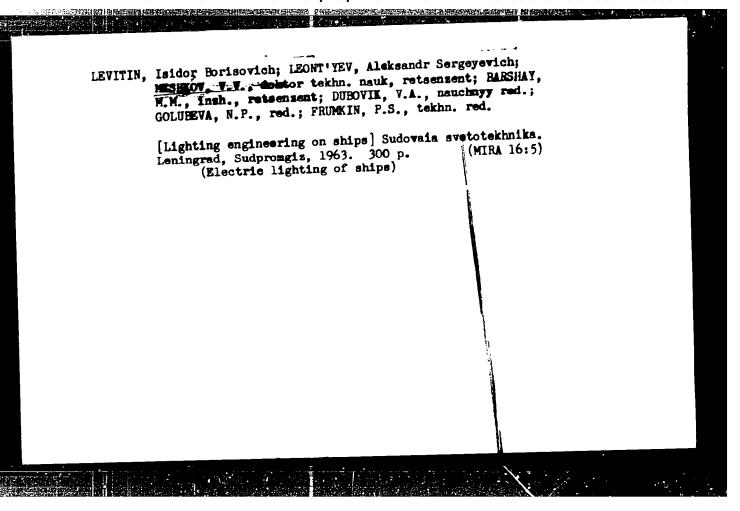
[Principles of lighting engineering] Osnovy svetotekhniki.
Moskva, Gos.energ.izd-vo. Pt.2. [Physiological optics and
colorimetry] Fiziologicheskais optika i kolorimetriis.
1961. 416 p. (MIRA 14:4)
(Colorimetry) (Optics)

MESHKOV, V.V., doktor tekhn.nauk, prof.

Sergei Vasil'evich Kravkov. Svetotekhnika 7 no.3:16-18 Mr '61.
(HIRA 14:8)

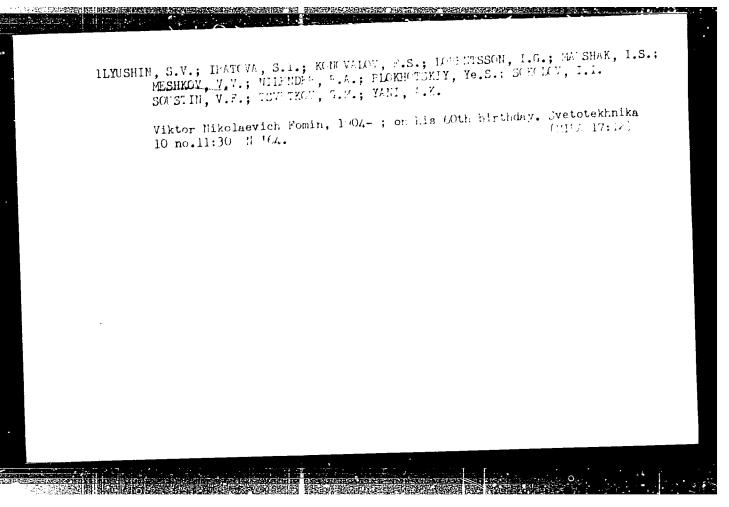
1. Moskovskiy energeticheskiy institut.
(Kravkov, Sergei Vasil'evich, d. 1951)





FOL'B, Rakhil' L'vovna; HELOV, A.A., inzh., retsenzent; KESHKOV,
V.V., doktor tekhn. nauk, prof., red.

[Principles of flashing light signals] Osnovy vizual'noi
probleskovoi signalizatsii. Moskva, Mashinostroenie, 1964.
98 p. (MIRA 17:7)



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90	rasheniya). Ho	scow, Izd-vo DOSAAF, I	964. 63 p. 111	us. Number	
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Yazimirov, A.A., Candidate of Technical Cciences, Bondar', V.Kh., "eshkov, V.V., and Jozovsky, V.T., AUTHOR:

Engineers

Three-Electrode Automatic Welding of Fillet and Groove TITLE:

Welds under Fowder Flux

Avtomaticheskaya svarka, 1950, rr 9, pp 3-10 (mosp) PERICDICAL:

In large serial production of structures with long ABSTRACT:

welds, such as beams, columns, tubes, wings, etc., the speeding-up of the welding process plays an important role. This impelled the Institute of Flectric Welling imeni Ye.O. Paton, to carry out systematic research on welding under forced conditions. In 1946-1948, the Institute worked out the process of automatic welding under powder flux permitting making the longitudinal groove welds at a speed of 100-120 m/hour, Tater on,

the process of double-arc welding was introduced and

raised the welding efficiency up to 150 m/hour. In Card 1/3

CIA-RDP86-00513R001033710003-3" APPROVED FOR RELEASE: 07/19/2001

30V/125_57_7-1-1/16

Three-Electrode Automatic "elding of Fillet and Croove "elds under Powder Flux

1955-1956, research on technology of three-electrode automatic welding of large-section double-" bears was conducted, On the basis of experiments, it was determined that groove welding of beams having wallsides 8-20 mm thick, (Fig. 1), can be accomplished by the three-electrode method at a speed of 100-180 m an hour. Three-electrode welding can be performed using a 7-6 mm electrode wire; for this purpose both direct and alternating current can be applied. Welding with the first electrode provides good results independently of whether its current differs from that of the other two arcs. The first arc heats the edges to be welded, the second and the third increase the depth and width of fusing; combined action of all three electrodes permits welding at high speeds, which are unattainable when other methods of arc welding are used. marles 1 and 2 give specific conditions of welding for two-sided groove-welds. The three-electrode process enables

Card 2/3

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Three-Electrode Automatic Welding of Fillet and Groove Welds under Powder Flux

在2000年起,古世纪自由1880年的法律的关键。1880年的1880年,1880年,1880年的1880年的1880年的1880年的1880年的1880年的1880年的1880年的1880年的1880年的1880年的1

performing of high quality fillet welds at a speed up to 100 m hour, provided the carbon content in welds is under 0.13%; the groove welding speed can be brought up to 180 m/hour. Automatic three-electrode welding is a variety of three-phase welding and possesses all the advantages of the latter. Chemical composition of the weld metal and its mechanical properties can be regulated within broad limits by using electrodes of different makes and diameters. There are 4 graphs, 10 tables 3 diagrams and 5 references, 4 of which are Toviet and 1 German.

ASSOCIATION: Ordena trudovogo krasnogo znameni institut elektro-

svarki imeni Ye. O. Patona Am Wood (Order of the Bed Panner of Tabor Institute of Electric Welding imeni

Card 3/3 ranner of fator institute ve.C. Paton AC Wkr CCR)

SUBMITO D: April 8, 1959

25(1)

SOV/125-60-2-11/21

AUTHOR:

Meshkov, V.V.

TITLE:

The Welding of Continuous Tack Welds in Line Production 4

of Welded Double-T Structural Elements

PERIODICAL:

Avtomaticheskaya svarka, 1960, Nr 2, pp 83-84 (USSR)

ABSTRACT:

Brief information is given on a new welding technology developed at the Institute of Electric Welding imeni Ye.I. Paton of the AS UKRSSR for the production of thin-wall double-T structural elements having a wall height of up to 2000-mm and shelves up to 600-mm wide, such as are used in construction and machine building. The elements are joined first by preliminary continuous welds and welded finally on a special welding stand by four single-arc "A-560" welders of institute's design, running simultaneously along the four joints between the wall and the shelves. A welding speed of 144 m/hour can be attained with the one-electrode method with the electrode held at a 35° angle.

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Card 1/2

SOV/125-60-2-11/21

The Welding of Continuous Tack Welds in the Line Production of Welded Double-T Structural Elements

WATER WILLIAM BETTER BETTER

electrode wire 5-mm in diameter and "AN-60" flux is used. The preliminary welds fuse into the larger permanent weld (photograph). The welding process parameters are given. There is I photograph and I table.

ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektros-

varki im. Ye.O. Patona AN USSR (Order of the Red Banner

of Labor Institute of Electric Welding imeni Ye.O. Paton of the AS UkrSSR).

SUBMITTED:

August 14, 1959.

Card 2/2

CIA-RDP86-00513R001033710003-3" **APPROVED FOR RELEASE: 07/19/2001**

25(1) 18.7200

80267

S/125/60/000/04/012/018

D003/D006

AUTHOR:

Chvertko, A.I., Meshkov, V.V. and Lozovskiy, V.P.

TITLE:

Three-Arc Welding of Butt and Angle Welds in Produc-

tion of Welded Beams

PERIODICAL:

Avtomaticheskaya svarka, 1960, Nr 4, pp 78-81 (USSR)

ABSTRACT:

Institut elektrosvarki (the Electric Welding Institute), or ("IES") has been consistently working on the development of high-speed welding methods, and during 1946-1959, it developed two-arc process for the use in special pipe-welding work shops, created by "IES" for this purpose. The two-arc process, allows welding at speeds of 100 to 150 m/hr, and was described previously /Ref. 1,27, and is used for welding RR gondola car beams and ship hull sections /Ref. 37. During 1956-1959, "IES" developed a fully automatic welder -"A-615", /Photo, figure 17

Card 1/3

80267

S/125/60/000/04/012/018 D003/D006

Three-Arc Welding of Butt and Angle Welds in Production of Welded Beams

working with three arcs simultaneously. The welder consists of a self-propelling "bicycle" carriage with a vertical and a horizontal telescopic rods and three welding heads suspended to the vertical rod. Welding speed is adjustable between 38 and 200 m/hr by shift gears; current up to 2,000 amp and wire of 3, 4 and 5mm diameter can be used. The electrode holders swing freely to follow the outline of work; a special copying device with rollers copies the work in vertical direction. The machine is fully automatic, and can be switched over to semi-automatic or hand controls. Data on welding process is given. To take up the welding pool crater at the beam end, a plate of 150-200 mm is used (Figure 2). The "A-615" welder

Card 2/3

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\$/125/60/000/04/012/018 DO03/DO06

Three-Arc Welding of Butt and Angle Welds in Production of Welded

has passed laboratory and shop tests. Several welders of this type were produced for a beam welding line at the zavod im. Babushkina (Plant imeni Babush-kin) in Dnepropetrovsk. There are 3 photographs, I drawing, and 4 Soviet references.

ASSOCIATION:

Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im Ye.O. Patona AN USSR (Order of the Red Banner of Labor Electric Welding Institute imeni Ye.O. Paton of the AS UKrSSR)

SUBMITTED:

22 Dec 1959

Jard 3/3

1.2300 also 1573

21913 S/125/60/000/011/008/016 A161/A133

AUTHORS: Kazimirov, A.A., Lozovskiy, V.P., and Meshkov, V.V.

TITLE: The technique of beginning and ending the seam in automatic threearc submerged arc welding

PERIODICAL: Avtomaticheskaya svarka, no. 11, 1960, 49-51

TEXT: The automatic three-arc process developed by the Electric Welding Institute im. Ye.O. Paton had been described previously (Ref.1, "Avtomaticheskaya svarka", No.9, 1959), and also the three-arc welder "A-615" (Ref.2, "Avtomaticheskaya svarka", No.4, 1960). Fillet welds on T-joints and butt welds can be welded with a speed of 100 and 180 m/hr respectively. The major feature of the process are three electrodes in line moving simultaneously along the seam, with the first electrode far ahead of the two others. Special means were needed to reduce to a minimum the length of spoiled seam ends. It was found that the first arc must be ignited only after the welder has gained the operating speed, and the welding transformers must have a

Card 1/4

21913

The technique of beginning and ending...

S/125/60/000/011/008/016 A161/A133

high idle-run voltage to make the ignition dependable. For 1,100-1,700 amp on the first arc a reliable ignition is obtained with transformers of 90 : 110 v idle-run voltage. The second and third arc must be ignited simultaneously at the same spot where the first arc had been ignited before. Practically the time between the ignition of the first arc and the two following is 3.5-6 sec. The second and third arcs need transformers with lower idlerun voltage for the metal is already fused by the first arc. The loose plank for the welding start must be 120 mm long. The welding start had to be automated to simplify it and not make depending on the skill of the operator. Various electrical and electro-mechanical systems may be used. The "A-615" apparatus (Ref.2) has an electro-mechanical starting system, using limit switches in the control circuits of electric motors driving the welding heads. The limit switches are moving with the welder and closing the control circuits by contacting a fixed plank. The system proved reliable in tests. The welding of the seam end in three-arc process is difficult because of a long molten metal pool, up to 450 mm. The crater would be too long if all arcs were extinguished simultaneously. The problem was solved by using the sequence illustrated in the diagram, stopping the feed of separate electrodes in turn, and reducing the welding speed by steps. All Card 2/4

21/2

The technique of beginning and ending ...

S/125/60/000/011/008/016 A161/A133

welding operations on the crater portion of the seam are completed on a lead-out plank. As seen in the diagram, the feed of the first electrode ceases after the first arc has passed 20-35 mm on the lead-out plank. The process the first arc is welded through by the two remaining arcs, the welding speed of the third electrode stops, and 10-15 mm of the seam end are welded with the second arc alone. With a 150 mm long lead-out plank the crater is rethe plank end to prevent spilling of liquid metal and slag. The automation and 2 Soviet references.

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ASSOCIATION:

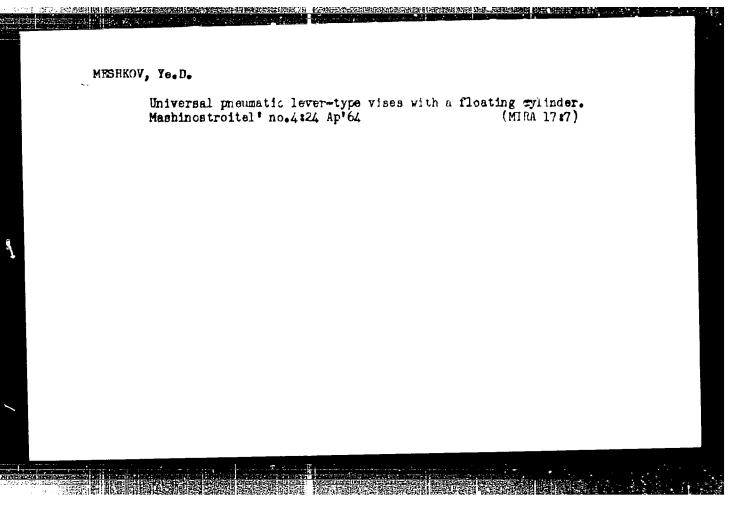
Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye. O.Patona AN USSR ("Order of the Red Banner of Labor" Electric Welding Institute im. Ye. O. Paton of the Academy of Sciences of the UkrSSR

Card 3/4

KAZIMIROV, A.A.; MESHKOV, V.V.

Approximation method of calculating conditions of three-electrode automatic butt welding. Avtom. svar. 17 no.7:25-29 Jl '(4. (MFPA 17:8))

1. Institut eloktrosvarki im. Ye.O. Patona AN UkrSSR.



MEST - you

137-58-4-8537

Translation from Referativnyy zhurnal, Metallurgiya. 1958 Nr 4 p 336 (USSR)

AUTHOR

Meshkov, Yu.A.

TITLE

The EMT-! Electronic-magnetic Thickness Gauge for Measuring Nonmagnetic Coatings on Steel (Elektronomagnitnyy tolsh-chemer EMT-l dlya zamera nemagnitnykh pokrytiv na stal noy osnove)

PERIODICAL.

V sb. Materialy nauchno-tekhn. konferentsii rabotnikov zavodsk. laboratoriy. Rostov-na-Donu. 1957, pp 115-118

ABSTRACT:

A description is presented of a special instrument to measure the thicknesses of nonmagnetic coatings (not over 25 mm) on steel. The gage is based on the change in the distribution of magnetic currents in the two arms of the magnetic circuit of the pickup with change in the magnetic resistance of either. The pickup is made of layers of transformer iron and is H-shaped. A field coil is wound on the middle segment of the magnetic circuit and is fed by a stabilized 36-v potential. Two windings are found on the top and bottom poles of the pickup, the lower for measuring and the upper for compensation. After rectification the emf induced in these windings are delivered to the measur-

Card 1/2

137-58-4-8537

The EMT-1 Electronic-magnetic 'con')

ing circuit, in counter-current, through a sensitive microammeter. The sensitivity of the instrument depends upon the parameters of the pickup windings and upon the sensitivity of the microammeter it may be quite high particularly when the coating is thin inot over 7 or 8 mm). An expression (nor linear) for the readings of the instrument versus the thickness of the coating is presented. The instrument error is $\leq 5\%$ at the end of the scale and 1.5% at the beginning.

7 F

- 1. Steel--Coatings--Measurement 1. Coatings--Measurement Fq 1.5-
- 3. Electronic equapment -- Applications

Card 2/2

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137-58 4-8540

Translation from Referativnyy zhurnal, Metallurgiya 1958 Nr. 4 p 317 /USSR,

AUTHOR

Meshkov, Yu.A.

TITLE.

Employment of the Ferrous Probe Coercimeter in Place of the Ballistic Apparatus to Measure the Coercive Force of Magnetically Nonretentive Materials (Primeneniye ferrozondovogo koertsitimetra dlya izmereniya koertsitivnoy sily magnitnomyagkikh materialov vmesto ballisticheskoy ustanovki)

PERIODICAL V sb. Materialy nauchno-tekhn, konferentsii rabotnikov zavodsk, laboratoriy, Rostov-na-Donu, 1957, pp 119-121

ABSTRACT. A description is offered of the design of a new terrous probe coercimeter (C) intended to replace the common ballistic apparatus in the measurement of the coercive force of Armco Fe. The C consists of a special yoke assembled from sheets of transformer steel. The poles of the yoke are connected by the specimen under study, which is in the form of a cylinder 10 mm in diameter and 120 mm long. A 1.0 -1.3 amp current is transmitted through a field coil filling the length of a window in the base of the ferrous probe. To make a measurement, the magnetizing coil is placed over the sample which is between the

137 58-4 8540

Employment of the Ferrous Probe (cont.)

poles of the yoke. The coil is capable of setting up a flux of 1500 ampereturns in a brief period, and this is enough to saturate the Armco Fe. The moment when demagnetizing current is absent is fixed by the microammeter Measurements made in this way are 3 to 5 times as fast as with ballistic apparatus. Measurements are accurate to within 0.8% and this degree of precision may be improved if necessary. The ferrous probe Ciscompact and does not require so sensitive an instrument as the ballistic galvanometer. The process of measurement lends itself readily to automation.

Z F

1. Iron--Magnetic properties- Measurement (2) Iron--Magnetic properties -- Testing equipment

Card 2/2

DONSKOV, V.Ye.; IVANOV, F.I.; MESHKOV, Yu.K.; MOISETEV, P.N.; KHINKIS, L.A.; KAMENITSER, S.Ye., kandidat ekonomicheskikh neuk, neuchnyy redaktor; MASIOVA, Ye.F., redaktor; GOTLIB, E.M., tekhnicheskiy redaktor.

[Organisation and planning of food industry enterprises; bakery, confectionery, macaroni and food concentrate industry] Organisatsiia i planirovanie predpriiatii pishchevoi promyshlennosti; khlebopekarnoi, konditerskoi, makaronnoi i pishchekontsentratnoi. Pod obshchei red. V.E.Donskova. Moskva, Pishchepromisdat. Pt. 1. 1954. 460 p.

(Tood industry) (MLRA 8:2)

DONSKOV, Vasiliy Yefimovich, dotsent, kand.ekon.nauk; ZUYEVA, Reisa Vasil'yevna, kand.ekon.nauk; KHUZHKOVA, Reisa Vasil'yevna, kand.ekon.nauk; MESHKOV, Yuriy Konstantinovich, dotsent, kand.ekon.nauk; MOISHTEV, Petr
Mikitich, dotsent, kand.ekon.nauk; PONOMAREVA, Irina Andreyevna, kand.
ekon.nauk; KHINKIS, Lev Akimovich, starshiy prepodavatel'; KAMENITSER,
S.Ye., kand.ekon.nauk, retsenzent; nauchnyy red.; BULGAKOV, Q.V...kand.
ekon.nauk, retsenzent; SHVARTS, V.M., inzh.ekonomist, retsenzent; PRITYKINA, L.A., red.; SOKOLOVA, Y.A., tekhn.red.

[Production organisation and planning in food industry enterprises]
Organisatsiia i planirovanie proizvodstva na predpriiatiiakh pishchevoi promyshlennosti. Moskva, Pishchepromizdat, 1959. 605 p. (NIRA 12:9)
(Food industry)

BILLIK, Abram Markovich; POZIN, Mark Markovich, kand. ekon. nauk; LOVIKOV, Petr Fedorovich; KAMENITSER, S.Ye., prof., doktor ekon. nauk, retsenzent; MOROZOV, M.V., kand. ekon. nauk, retsenzent; MESHKOV, Yu.K., kand. ekon. nauk, red.; MASLOVA, Ye.F., red.; BRODSKIY, M.P., tekhn. red.

[Organization and planning in refrigeration enterprises] Organizatsiia i planirovanie kholodil'nykh predpriiatii. Moskva, Gos. izd-vo torg. lit-ry, 1961. 276 p. (MIRA 14:10) (Refrigeration and refrigerating machinery)

MESHKOV, Yuriy Konstantinovich; MARKHEL!, F.S., kand. tekhn. mauk, retesmizent; KALITA, N.Ya., kand. ekon. nauk, retesmizent; FUKS, V.K., red.

[Establishment of termical work norms in enterprises of the food industry] Tozhniteteskoe normicovarie truca ne predprisatiakh ;ishchevel; recychiennosti. Mo.kva, F.sshchevala presychiennosti. Paul. N. ; (NICA 19:3)

MESHICOV, You Ya

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25578 S/185/60/005/002/013/022 D274/D304

18 8100 AUTHOR:

Mreshkov, Yu. Ya.

TITLE:

Magnetometer for studying phase transformations

under fast heating and cooling

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 5, no. 2, 1960,

252-257

TEXT: A method is described for the study of fast heating of steels by simultaneous recording of temperature, elongations, magnetic properties, and electrical conductivity of wire specimens of diameter 1.5 to 2.0 mm. A small size (200 x 180 x 80 mm) a.c. magnetic instrument is described in detail; this instrument permits obtaining variable magnetic fields up to 3000 oerst. This instrument has been used for several years now in factories for control of coatings of steels, etc. Yu. Ya. Myeshkov and Yu. I. Pilipchenko (Ref. 5: Peredovoy nauchno-tekhnicheskiv i proizvodstvennyy opyt, Filial VINITI, tema 33, no. P-58-152/8, 1958). The instrument has the advantage of compactness and simplicity of design and servicing

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Magnetometer for studying phase...

making it possible to obtain a virtually continuous record of magnetic properties of specimens which undergo heating, for sufficiently large rates of heating (up to 1000 deg/sec); the instrument can be readily combined with existing setups for the study of fast heating processes, making it possible to devise a complex method of research (which involves the recording of the parameters mentioned at the beginning of the article). The main disadvantage of the instrument consists in the dependence of the readings on the distance between specimen and magnetic poles, and also in a phase-shift. Therefore, the instrument can be used for the time being for qualitative analysis only. But even simple qualitative analysis of magnetic properties of steel under fast heating and cooling would give much valuable data which could not be obtained by other methods. Fig. 1 shows a basic diagram of the instrument. Measuring coils W1 to W4 are connected to rectifier circuits M1, M2; the voltage is applied (through R_1 and R_2) to the measuring loop L; in this case a 9-loop oscillograph. A current passing through coil W_0 induces a magnetic flux with maximum value ϕ_m . A table is given with the operating conditions of the instrument. In weak fields, the sensitivity of

Card 2/4

Magnetometer for studying phase...

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the instrument is greatly increased when the magnetic phase in the specimen approaches 100%; hence sufficiently subtle changes in the magnetic state of the specimen can be detected. The rate of heating is regulated by means of the voltage applied to the specimen. The duration of heating is fixed by a time relay. Typical oscillograms of heated steel specimens U8A are shown. If the instrument is supplied by an a.c. -source of 50 cy., 100 measurements per second can be taken of magnetic properties; this makes it possible to study heating processes up to rates of 5000 deg/sec; for higher rates of heating, the instrument has to be supplied by a 200 cy. a.current; this would require some slight change in the design of the instrument. The author studied heating processes not exceeding rates of 1000 deg/sec. There are 3 figures, 1 table and 7 Sovietbloc references.

. ASSOCIATION:

Instytut metalofizyky AN USSR (Institute of Metal-

physics AS UkrSSR)

SUBMITTED:

July 10, 1959

Card 3/4

 χ

GRIDNEY, V.N. [Hridniey, V.H.]; MESHKOV, Yu.Ta. [Mieshkov, IU.IA.]

Austenite formation in rapid heating. Dop.AH URSE no.6:780-783
'60. (MIRA 13:7)

1. Institut metallofiziki AN USSR. 2. Chlen-korrespondent AH USSR (for Gridney).

(Austenite)

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1413, 2808, 4016

26859

8/021/60/000/008/009/011

D210/D305

AUTHORS:

18.8100

Hridnyev, V.N., Corresponding Member AS UkrSSR, and

Myeshkov, Yu.Ya.

TITLE:

On Vertain peculiarities of steel softening when

electrically heated

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR, Dopovidi, no. 8,

1960, 1081 - 1084

TEXT: The aim of the paper was to find intervals of temperature and the kinetics of the relaxation processes of steel tensions. The steels used in the research were YSA (USA), 15XA (15KhA), 38XA (38KhA) and UNX6 (ShKh6) for tempered steel and USA and 38KhA for 33 % or 80 % deformed steel, in the form of wire 90 mm long and with an 1:8 mm diameter heated by the use of industrial current; the temperature, extension and magnetization were registered during the experiments. The steels were heated to different temperatures and tempered by water. In some cases the repeated heating of

Card 1/4

On certain peculiarities of steel ...

26859 \$/021/60/000/008/009/011 D210/D305

samples was performed and the hardness according to Vickers was measured, as well as tensions of second type. On the deformed steel only the hardness of the steel was measured. At the beginning, with the increase of temperature the magnetization increases, but slackens at peak point (from 2000-2800C). Then, beginning with 340-350°C during the period of carbide transformation it sharply decreases. It was shown previously that with an increasing temperature, the tempered or deformed steel softens. It would be reasonable, to suppose that these processes of softening in some way show the influence on the magnetic properties of warming steel. According to Becker and Kersten (Ref. 4: Zeitschrift fur Physik, 69, 660, 1930). Magnetization in non-saturated magnetic fields I is equal to

$$I = \frac{I_8^2}{3\lambda_8\sigma} H,$$

where I is magnetization of saturation, and H is strength of the

Card 2/4

26859 \$/021/60/000/008/009/011 **D210/D305**

On certain peculiarities of steel ...

field. According to this the decrease of internal stresses induce the increase of magnetization. Therefore, the course of magnetization could be explained as a relaxation of internal stresses. The author tries to explain the process of the steel softening. In his view the softening of the steel has at the early stages a mermoelastic character. By cooling to room temperature this softening disappears. As the temperature increases, the magnetization remants increase constantly. The general assumption is that it is connected with the dependence of the modulus of elasticity E on the temperature; it decreases when temperature increases, and, therefore, according to Hooke's law, decreases σ (σ = EE where 2 deformation). Next the author points out that the $\alpha \rightarrow \gamma$ transformation does not completely soften steel; for complete softening, a temperature of over 950°C (for YSA (USA) steel) is required, at which point recrystallization of austenite apparently takes place. There are 3 figures and 8 references: 7 Soviet-bloc and 1 non-Soviet-bloc.

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26859 \$/021/60/000/008/009/011 D210/D305

On certain peculiarities of steel ...

ASSOCIATION: Instytut metalofizyky AN USSR (Institute of Metallo-physics AS UkrSSR)

SUBMITTED: March 1, 1960

Oard 4/4

CIA-RDP86-00513R001033710003-3" **APPROVED FOR RELEASE: 07/19/2001**

S/601/60/000/011/005/014 D207/D304

AUTHORS:

Gridney, V. N., and Meshkov, Yu. Ya.

TITLE:

Magnetometric studies of tempering quenched

steels by electrical heating

"公公公司也」 智能的证据 使用的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就会会会,我们就会会会,我们

SOURCE:

Akademiya nauk Ukrayins'koyi RSR. Instytut metalofyzyky. Sbornik nauchnykh rabot. no. 11. 1960. Voprosy fiziki metallov i metallovedeniya,

74-81

TEXT: The authors investigated the effects of tempering on phase transformations and internal stresses in structural steels 15 × (15 kh) and 38 × A (38 khA) and instrument steels 11 × 6 (ShKh6) and 48 A (U8A). The samples were long wires of 1.5 - 2.4 mm diameter. Before tempering, they were heated in argon and then quenched; ShKh6 and U8A were subjected to "cold treatment" in liquid nitrogen. Next, the samples were tempered by passing 50 c/s current through them, which raised the tempera-

Card 1/3

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Magnetometric studies of...

S/601/60/000/011/005/014 D207/D304

ture at the rate of 250 - 300 deg/sec. Expansion and magnetization of the samples were recorded during tempering. Magnetization was measured with a 50 c/s magnetometer applying weak fields (200 0e) to the samples. The use of weak fields is claimed to be an important innovation since magnetization is practically unaffected by structural changes or internal stresses in magnetic fields which are strong enough to produce saturation. The steels ShKh6 and USA contained residual sustenite (before tempering), which decomposed above the carbide transformation (~400°C). This decomposition was very rapid (0.3 - 0.4 sec.) when it occurred between 470 and 500°C. If heating was stopped near the and USA decomposed during cooling to room temperature. In 15Kh and 38KhA, heating to the temperature of the carbide transformation relieved internal stresses. There are 5 figures, 1 table and 7 references: 6 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Grancle and Sucksmith, J. of Iron and Steel Inst., 168, part II, Card 2/3

Magnetometric studies of ... S/601/60/000/011/005/014
SUBMITTED: October 5, 1959

Card 3/3

\$/601/60/000/011/007/014 D207/D304

AUTHORS:

Gridnev, V. N., Meshkov, Yu. Ya., and

Sul'zhenko, V. K:-

TITLE:

Electrical tempering of chromium steels

SOURCE:

Akademiya nauk Ukrayins'koyi RSR. metalofyzyky. Sbornik nauchnykh rabot. no. 11. 1960. Voprosy fiziki metallov i metallo-

vedeniya, 87-93

TEXT: The authors report a study of the changes in structure and mechanical properties produced by electrical tempering of chromium steels 38XA (38KhA) and WX6 (ShKh6). The samples (130 mm long wires of 1.8 - 2.4 diameter) were first quenched from temperatures which ensured dissolution of carbides and were then cooled in liquid nitrogen. The samples were next tempered by passing a 50 c/s current through them so that the temperature rose at 900 - 1100 C/sec. The voltage across the sample, the

Card 1/3

Electrical tempering ...

S/601/60/000/011/007/014 D207/D304

current through it, and the changes of length were recorded during heating. Temperature was measured with a thermocouple and recorded with loop no. 8 of an oscillograph 980-302. tempering, the samples were cooled in water at the rate of 1500 - 2000 C/sec. The effects of tempering on the extension produced by tensile forces, the yield point, and the ultimate tensile strength were measured on both steels and the bending strength on Shkh6 only; all these measurements were relative. Deformations of type II and the mosaic block structure were investigated using X-ray diffraction (Fe emission in a Debye camera). The magnetic coercive force and the Vickers hardness were also measured. It was found that tempering by direct electric heating produced higher tensile and bending strengths, with a relatively small loss of ductility, than did tempering in a furnace. The improvement was more marked in 38KhA, which had a lower carbon content. Comparison of furnace tempering with direct electric heating showed also that the latter produces more deformations of type II, greater dispersion of coherent regions (blocks) and of

Card 2/3

Electrical tempering...

S/601/60/000/011/007/014 D207/D304

carbide precipitates. There are 5 figures, 1 table and 8 Soviet

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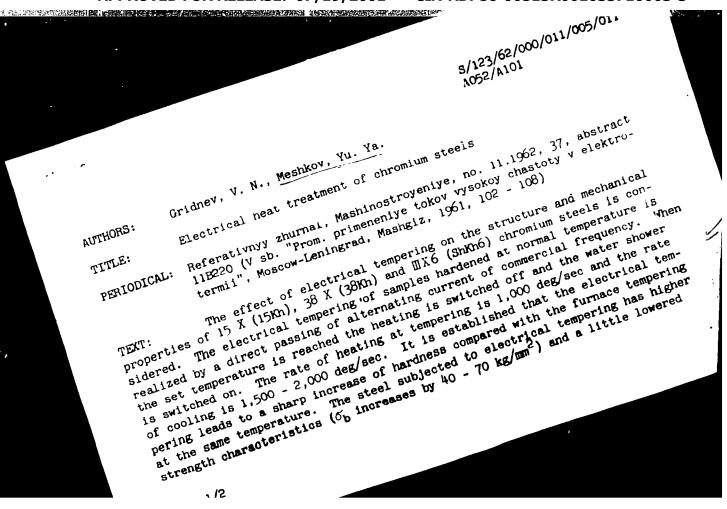
SUBMITTED:

September 23, 1959

Card 3/3

MESHKOV, Yu. Ya.

Cand Tech Sci - (diss) "Study of phase and structural transformations in rapid heatings of chrome steel." Kiev, 1961. 13 pp; (Academy of Sciences Ukrainian SSR, Division of Tech Sci Academy of Sciences Ukr SSR); 120 copies; price not given; (KL, 10-61 sup, 216)



S/123/62/000/011/005/011
Electrical heat treatment of chromium steels
A052/A101

ductility (S). Electrically tempered steel combines a comparatively high notch

ductility (S). Electrically tempered steel combines a comparatively high notch toughness with a increased strength. The possibility of combining strength with ductility and the technical advantages of electrical tempering (high efficiency, the possibility of automation and application on production lines) make electrical tempering a promising method of heat treatment.

E. Spivak

[Abstracter's note: Complete translation]

Card 2/2

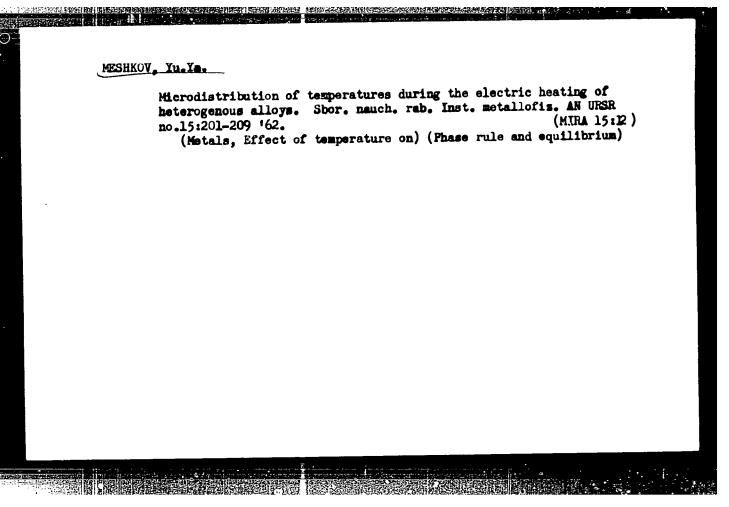
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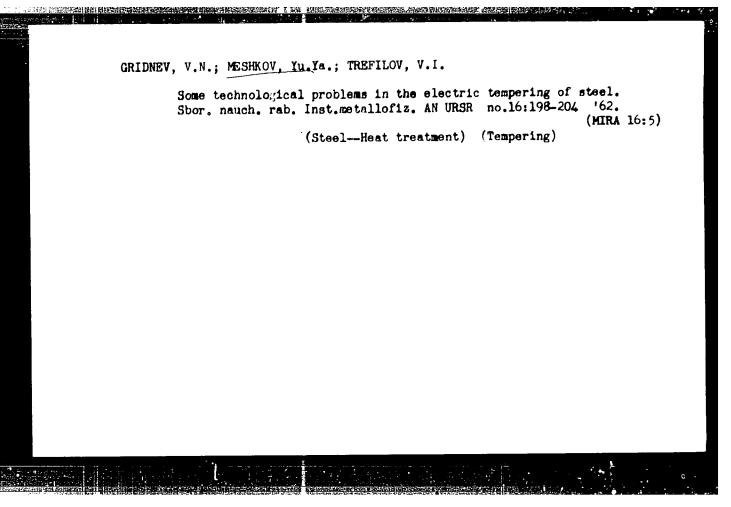
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met. no.6:2-4 Je '61.

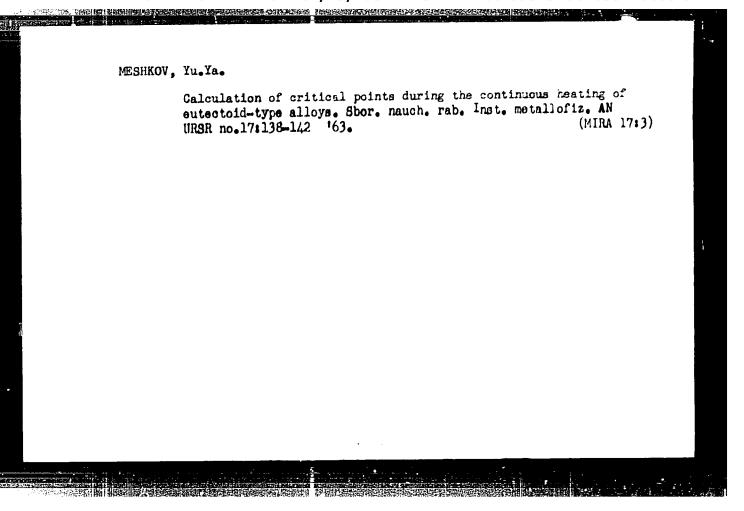
1. Institut metallofiziki AN USSR.
(Chromium steel.—Heat treatment)
(Tempering)

GRIDNEV, V.N.; MESHKOV, Yu.Ya.

Effect of the rate of heating on temperature transformation
intervals during the electric tempering of steel. Sbor. nauch.
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GRIDNEV, V.N.; MESHKOV, Yu.Ya.; PETROV, Yu.N.

Electron microscopy of the carbide phase during the electric tempering of chromium steels. Sbor. nauch. rab. Inst. metallofiz. AN URSR no.17:147-150 163. (MIRA 17:3)

GRIDNEV, V.N.; MESHKOV, Yu.Ya.; CHERNENKO, N.F.

Critical points of the titanium-chromium alloy during rapid heating. Shor. nauch. rabot. Inst. metallofiz. AN URSR no.17:143-146 '63.

Complex equipment for the study of phase transformations during rapid heating. Ibid.:187-192 (MIRA 17:3)

GRIDNEV, V.N.; LIKHOVSKIKH, M.N.; MESHKOV, Yu.Ya.; TREFILOV, V.I.

Induction heating with rapid electric tempering. Metalloved. i
term. obr. met. no.lr59 Ja '64. (MIFA 17:3)

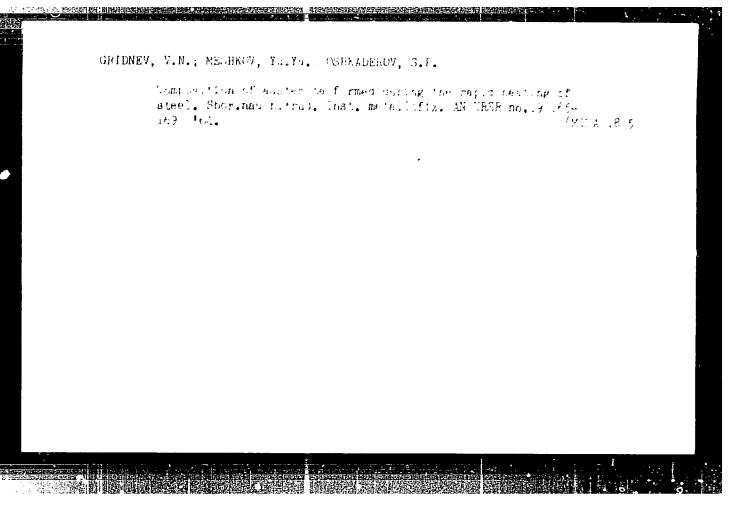
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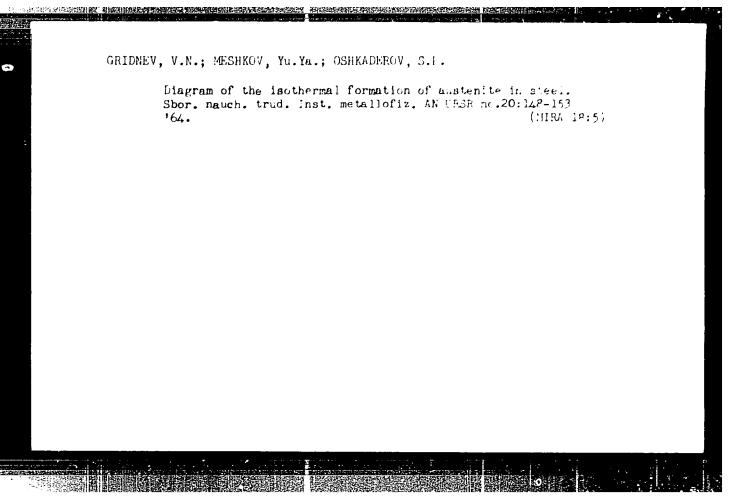
Critical points of titanium-iron alloys during rapid heating.
Sbor. nauch. rab. Inst. metallofiz. AN URSR no.18:100-106

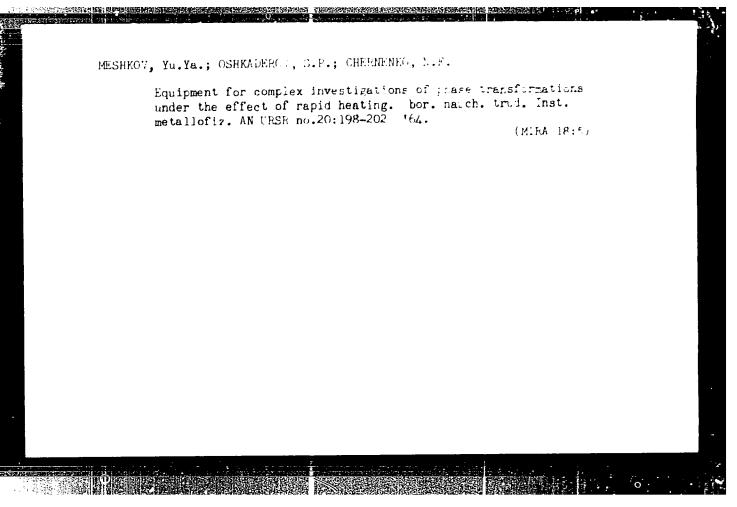
'64.

MESHKOV, Yu. Ya.; OSHKADKROV, S.P.

Methods of temperature recording during ultra high-speed heating of iron. Shor. nauch. rab. Inst. metallotiz. AN URSR no. 18:21t-219 '64 (MIRA 17:8)

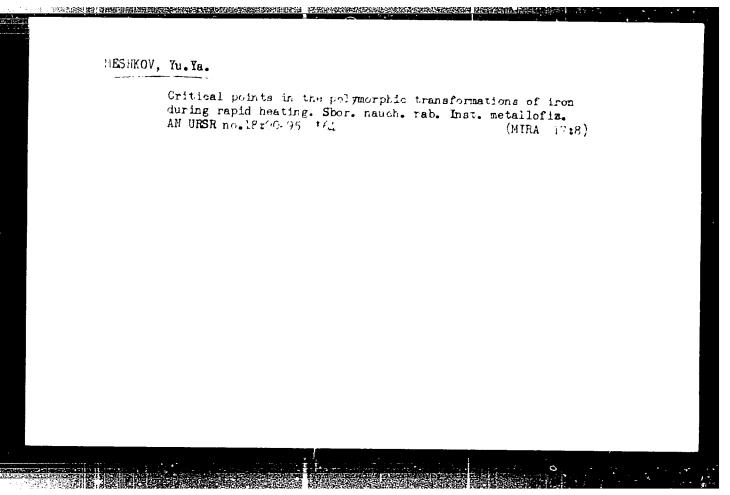


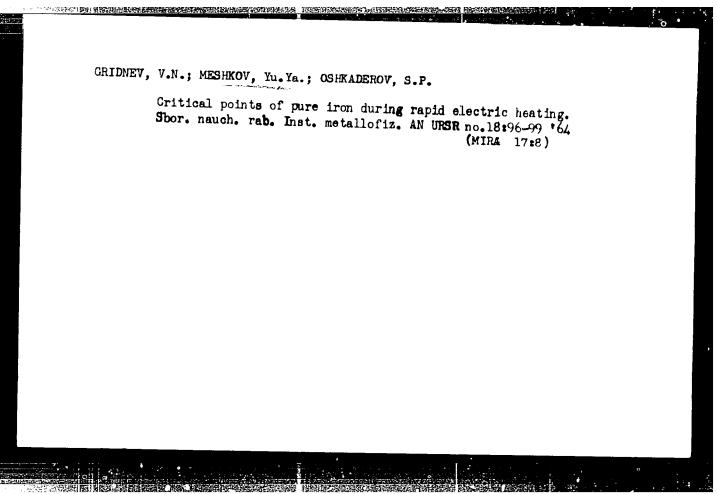




C 36621-65 ENT (m)/EMA(d)/T/EMP(t)/EMP(b)/EWA(c)--MJW/JD ACCESSION NR. AP5002356 S/0126/64/018/006/0938/0939 AUTHOR: Gridnev, V. N.; Meshkov, Yu. Ya.; Oshkaderov TITLE: Temperature of austenite formation during rapid heating of steel and iron SOURCE: Fizika metallov i metallovedeniye, N. 18, no. 6, 1964, 938-939 TOPIC TAGS: austenite, austenite formation, formation temperature, iron, USA greel, nondiffusion transformation ABSTRACT: The temperatures at which austenite was formed from pure iron, or from tempered, normalized or annealed USA steel by heating at different rates (20-8000 deg/sec for steel and up to 10000 deg/sec for iron) were determin ed. The moment of the a -7 transformation was determined by dilatometric analysis which indicated compression changes on an oscillogram. The study confirmed the practically linear rise in the critical point as the heating rate increased, and indicated the rate of this rise depended on the initial structural state: the coarser the initial structure, tho greater the dependence on the heating rate.

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an tridining! 8/2601/64/000/018/0100/0106 AT4042836 ACCESSION MR: AUTHOR: Gridney, V. N.; Heshkov, Yu. Ya.; Chernenko, N. F. Critical points of rapidly heated titanium-iron alloys TITLE: SOURCE: AN UkrSSR. Institut metallofiziki. Sbornik nauchny*kh rabot, no. 18, 1964. Voprosy* fiziki metallov i metallovedeniye (Problems in the physics of metals and physical metallurgy), 100-106 TOPIC TAGS: titanium alloy, titanium iron alloy, alloy phase transformation, critical heating rate, rapid heating, diffusional phase transformation, nondiffusional phase transformation ABSTRACT: Vacuum-arc-melted Ti-base alloys containing 8% Fe were forged, drawn, and then vacuum annealed at 850C for 150 hr. obtained eutectoid was a coarse-grained mixture of the a-phase and a Ti-Fe intermetallic compound. Specimens were heated at a rate varying from 0.05 to 1300 deg/sec, and the transformation points were determined by the dilatometric and electric resistivity measurements. It was found that the temperature of the beginning of the transformation increased first rapidly (from -580 to -775C) as the heating Card 1/2

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ACCESSION NR: AT4042836

rate was increased to 100 deg/sec, then more slowly (from -775 to 825C) as the heating rate was increased from 100 to 400 deg/sec, and practically stabilized at 850C at higher heating rates. A good agreement between the critical heating rate (470 deg/sec) calculated for the diffusional transformation mechanism and the experimental rate ("400 deg/sec) shows that with heating at a rate lower than the critcal, i.e., 400 deg/sec, the high-temperature 8-phase is formed by diffusional interaction of the a-Ti and TiFe phases of the eutectoid. With heating at a rate higher than the critical, the formation mechanism of the high-temperature β -phase becomes nondiffusional, i.e., the a-phase first is transformed to the 8-phase of the same composition and only later, with further increase in temperature, the TiFe intermetallic compound dissolves in the β -phase. Orig. art. has: 6 figures and 1 table.

ASSOCIATION: Institut metallofiziki AN UkrSSR (Institute of Physics of Hetals,

AN UKTSSR)

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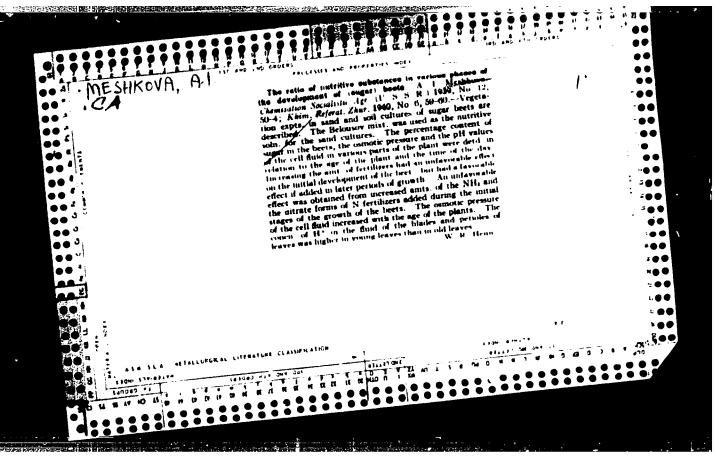
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MESHLOVA, H. I.

Unda, Cultivable Plants - Grains.

Abs Jour : Ref Zhur - Biol., No 3, 1958. 10090

Author : Meshkova, A.I.

Inst : Severo-feetin Agricultural Institute

Title : The Consequences Which Potato Flanting Methods Have on

Winter Wheat Yields.

Orig Pub : Tr. Ceremi-Cactinsk. s.-kh. In-ta, 1956, 17, 95-100

Abstract : The results are given of emperiments conducted on the lea-

ched chernorems of the foothills of Crarbonikidzevskii rayon, Severo-Caetinskaya ASSA. According to the data of a 1951 experiment the 0-50 cm. soil layer possessed the following quantities of utilisable soil water at the time when when two planted (8/X) (Sctober 8): 38.5 mm. on plots where potatoes had been planted by the square nest

method (70 x 70), 24.8 mm. on plats where potatoes were

Cerd 1/2

Plants and animals cast up by the surf on the Lake Sevan shore. Isv. All Arm. SSE, Blol. 1 sel'khos.nauki 8 no.5:93-95 ky '55. (NLEA 9:8) 1. Sevanskaya gidrobiologicheakaya stantsiya All Arm. SSR. (Sevan, Lake--Fresh-Water biology)

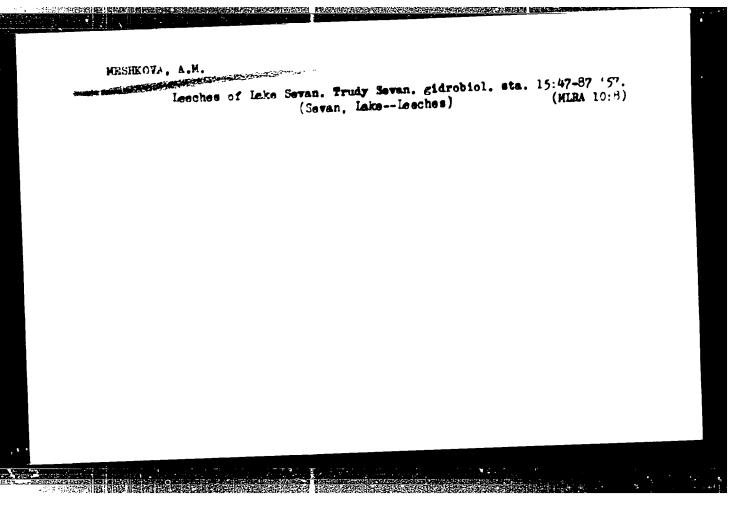
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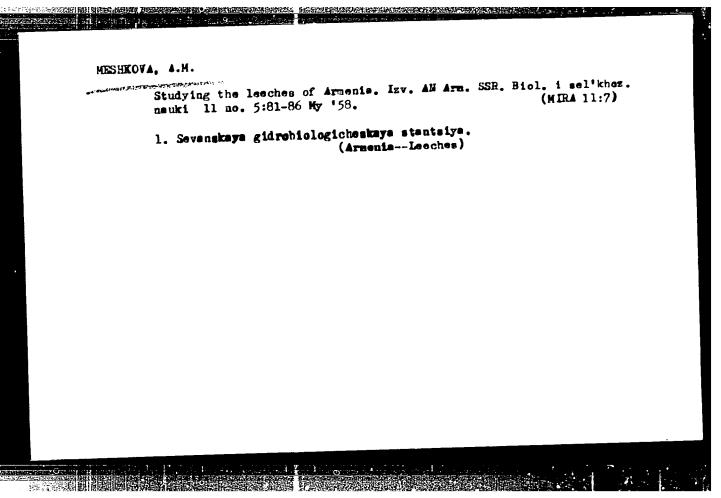
MESHKOVA, A. M.

Meshkova, A. M.

"Leeches of Lake Sevan." Published by the Acad Sci Azerbaydzhan SSR. Inst of Zoology, Acad Sci Azerbaydzhan SSR. Baku, 1956. (Dissertation For the Degree of Candidate in Biological Sciences.)

Knizhnaya letopis' No 21, 1956. Moscow.

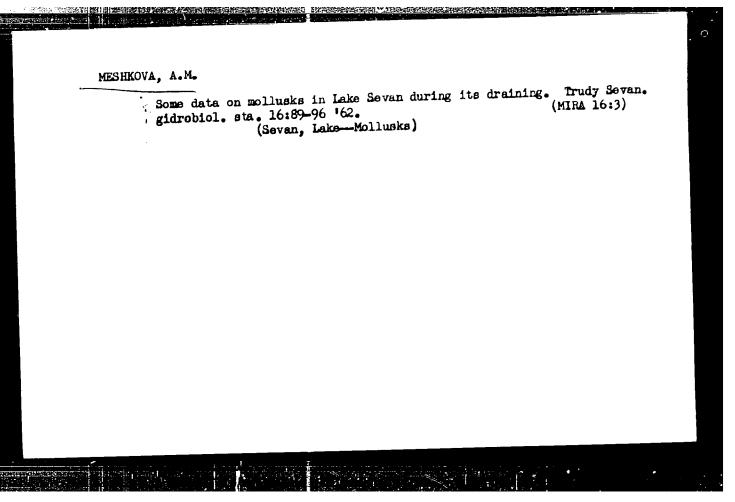




MESHKOVA, A.M.

Biology of some caddis fly species occurring in large masses in rivers and springs of the basin of Lake Seven. Isv. AN Arm. SSR. Biol. nauki 14 no.6:51-58 '61. (MIRA 14:10)

1. Sevanskaya gidrobiolgotcheskaya stantsiya AN Armyanskoy SSR. (SEVAN LAKE REGION CADDIS FLIES)



MESHKOVA, A.M. Classification and ticlogy of Sericostoma grusienne Mart. (Trichoptera). Izv. AN Arm. SSR. Biol. nauki 17 no.3:67-71 (Elina 17:57 Mr '64. 1. Sevanskaya gidrobiologicneskaya stantsiya AN Armyanskoy SSR.